

CRAYVALLAC® PA3 WDA 20

Pre-activated amide rheology modifier supplied in mineral spirit
Polyamide

TYPICAL CHARACTERISTICS

Nature	Polyamide
Appearance	Off-white paste
Solid Content (%)	20
Active Content (%)	20
Specific gravity	0.88
Solvent	D60 and Alcohol

DESCRIPTION

CRAYVALLAC® PA3 WDA 20 is a pre-activated amide wax supplied in a mixture of mineral spirit (D60) and alcohols. Under paste form for post-addition to solvent-based low polarity coating systems, it provides a shear-thinning rheology with thixotropic viscosity recovery to coating formulations. In coating systems, its crystalline fibres form an interacting network which gives rise to the shear-thinning rheology of the final coating. It provides a very high viscosity under the low shear rates associated with sedimentation, and a low viscosity at the much higher application shear rates. The net result is excellent control of sedimentation combined with ease of application. Immediately following application, the coating's viscosity undergoes a time dependent recovery as the network re-establishes itself. This time dependence is known as thixotropy and enables the final coating to attain very good levelling.

RECOMMENDED ADDITION LEVEL

0.5-5.0% under low to medium shear dispersion

STANDARD PACKAGING

Other packaging may be available upon request

- 15 Kg Pail

HANDLING & STORAGE

It should be stored in the original containers in a dry place at temperatures between 5°C (41°F) and 30°C (86°F). Avoid exposure to direct sunlight or frost. In these conditions, this product should be used within 24 months from production.

PROCESSING INSTRUCTIONS

In order to obtain maximum efficiency from CRAYVALLAC® PA3 WDA 20, it is necessary to disperse this product without destroying the crystalline fibres. It is therefore preferable to incorporate CRAYVALLAC® PA3 WDA 20 under low to medium shear conditions over as short a time period as possible. There are two main methods by which CRAYVALLAC® PA3 WDA 20 can be incorporated: **Post addition: Using a high-speed disperser, CRAYVALLAC® PA3 WDA 20 is added during the final stages of production, when the coating has been partially thinned to a viscosity of 600- 800mPas (ICI cone and plate at 10000s⁻¹) and the peripheral speed reduced to approximately 4m.s⁻¹. Too high a speed will result in reduced performance, whereas, too low a speed will result in extended incorporation times. In general, the time required for incorporation should be kept to a minimum in order to minimize overshear. Master batch preparation: To be prepared by dispersing CRAYVALLAC® PA3 WDA 20 in a resin and/or solvent using low to medium shear rates. This dispersion can then be added to the finished coating.**

HEALTH AND ENVIRONMENTAL DATA

For safe handling please refer to the Safety Data Sheet. For more information about health and environmental data, please contact us.

MARKET

- Coatings & Inks**
- Architectural Coating
 - Industrial Coating

KEY BENEFITS

FORMULATION

- **Ready to use**
- **Easy handling**
- **Post addition**



STORAGE

- **Antisettling**
- **In-can appearance**
- **Syneresis resistance**
- **Viscosity stability**



APPLICATION

- **Edge-coverage**
- **Sag resistance**
- **Sprayability**



FILM PROPERTIES

- **Gloss**
- **Levelling**
- **Pigment orientation**



- **APEO free** Yes
- **Bacteria resistance** Yes
- **Heavy metal free** Yes

THICKENING MECHANISM

Non Associative



VISCOSITY CONTRIBUTION

Low Shear contribution

